

1.What is a variable?

Ans: A "Little Box" in the computer's memory that has a name and stores some value

2.Python is a "dynamically typed" language. What does this mean?

Ans:The variable type can change throughout your program

3.Which of the following are some of the data types in Python?

Ans: Integers, Strings and Floats

4.Why do we use variables?

Ans: All of the above

1.What does this Python code mean in plain English?

```
x = 2
```

Ans: create a variable with the name x, and assign it the value of 2.

2.Which of these functions is used to see a variables type?

Ans:type()

3.What is an integer?

Ans: An Integer is an Whole number

4.What does the modulo operator do?

Ans: Finds the remainder of a division.

1.How would I find the REMAINDER of 3 divided by 2

Ans: 3%2

2.What is the result of 5 % 2

Ans:1

3.Why do we use brackets (parentheses) when working with numbers?

Ans: it controls the order in which mathematical operations are performed

4.Which of the following would be the correct way to gain access to the python random module?

Ans: import random

1.A String is an iterable data type

Ans: True

2.The basic slice format is:

Ans: variable[start:end:step]

3.If we have the string

```
string = "happy_birthday"
```

how can we pull out the word "happy" using a slice?

Ans: string[: string.index("_")]